



Crossref Live
Amsterdam 13-14th November 2019





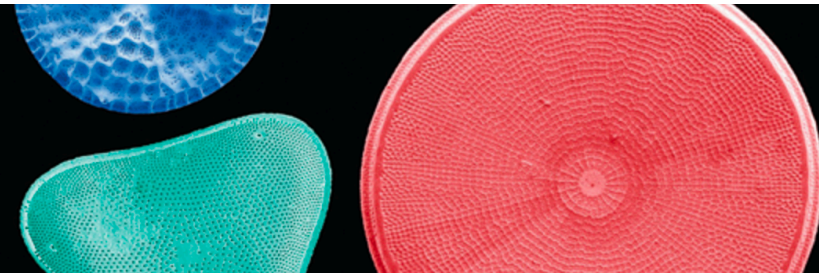
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~20,000 peer-reviewed articles a year

Science, Technology & Medicine

A founding member of OASPA

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Open Source

- prevents monopolistic control
- requires an active community of users and service providers to develop and maintain infrastructure

Open Data

- metadata about the research process itself, such as funding data, publication and citation data, and “altmetrics” data

Open Integrations

- standard metadata formats and open APIs

Open Contracts

- completely open (public) and no lock-in (e.g. Non-Disclosure Agreements, multi-year contract terms, and privately negotiated prices)

“most of the data needed to support Open Science is controlled by commercial companies, both big and small. This growing reliance on a handful of companies to provide proprietary analytics and decision tools for research funders and universities poses serious risks for the future”

Peters, Paul. 'A Radically Open Approach to Developing Infrastructure for Open Science'. *Hindawi Blog* (blog), 12 March 2018. <https://medium.com/@Hindawi/https-about-hindawi-com-opinion-a-radically-open-approach-to-developing-infrastructure-for-open-science-d0e6a1dfb99f>.



Hindawi

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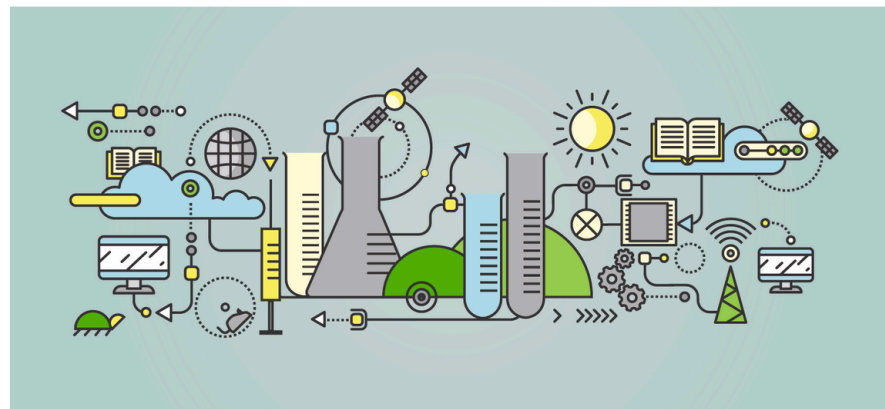
Opinion

Contact

A radically open approach to developing infrastructure for Open Science

Paul Peters

October 23rd, 2017



Hindawi's CEO, Paul Peters, explains the problems inherent in proprietary solutions for Open Science infrastructure and presents a proposal for how things can be done differently.

Should commercial companies have a role in developing infrastructure for an Open Science future?

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Richer metadata makes content useful.
Make sure your work can be found.

Hindawi Limited

54,054
Total registered
content items

Content type: Journal articles

Journal articles 54,054

Journal articles

 Current content

References



Open references



ORCID IDs



Funder Registry IDs



Funding award numbers



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The Open Funder Registry The Open Funder Registry provides a common taxonomy of over 10,000 international funding organization names together with unique IDs for each. Publishers should use the Registry to normalize collection of funding bodies from authors....

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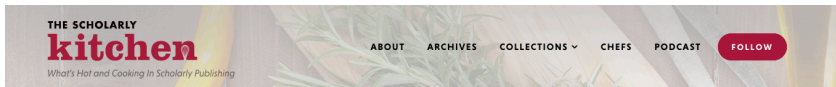
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Event Data

Event Data — open for your interpretation Publisher metadata is one side of the story surrounding research outputs, but conversations—and ideas that build further around scholarly research—take place all over the web. So we built...



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All Things Coko: A Step Towards a True Shared Infrastructure for Scholarly Communication?

By PHILL JONES | DEC 17, 2018 | 26 COMMENTS

BUSINESS MODELS | INNOVATION | TECHNOLOGY | TOOLS | USABILITY



PRINT THIS PAGE

The first week of December is an important week in the scholarly publishing calendar in the UK. As well as **STM Week (#STMWeek)**, which includes a series of linked all-day seminars along with a committee and working group meetings, there are multiple community, vendor and industry events. It's a good opportunity



Institutions Publishers Blog Meet the Team

Hindawi launches open source peer review system

Andrew Smeall September 18th, 2018



Office of Scholarly Communication

University of California

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A scalable solution to a sizable problem: UCP, CDL & Coko's journey toward Editoria

By Alison McGonagle-O'Connell / September 6, 2018



Despite the emergence, over the past few decades, of elaborate and powerful new forms of digital communication, the scholarly



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eLife, Coko, Hindawi Limited and Digirati commit to Libero for open-source publishing

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2018 26 NOV SHARE f t in

eLife, together with the non-profit Collaborative Knowledge Foundation (Coko), open-access publisher Hindawi Limited and digital consultancy Digirati, has today announced a new formal partnership to develop the latest version of Libero.



Open source publishing technology.

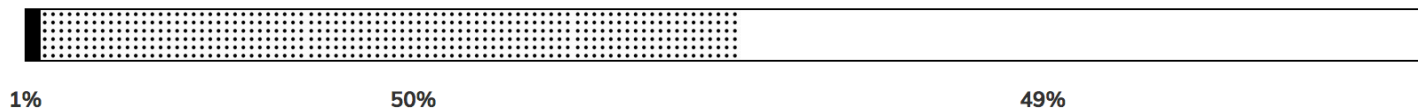
The Coko Foundation is a non-profit organization transforming how knowledge is created, improved, and shared. Our goal – to replace current scholarly communication technologies with open, shared infrastructure.



The Initiative for Open Citations • I4OC

Making tens of millions of machine-readable citation metadata
openly available to everyone, with no copyright restriction.

How many citations are open today?



As of January 2018, the fraction of publications with open references has grown from 1% to more than 50% out of 38 million articles with references deposited with Crossref.

Open citations: A letter from the scientometric community to scholarly publishers

December 5th, 2017

Openness is central to the research endeavor. It is essential to promote reproducibility and appraisal of research, reduce misconduct, and ensure equitable access to and participation in science. Yet, calls for increased openness in science are often met with initial resistance. The introduction of pre-print servers, open access repositories, and open data sets were, for example, initially resisted, but eventually adopted without adverse effects to the scholarly ecosystem. The launch of the **Initiative for Open Citations (I4OC)** is facing similar obstacles. This initiative has campaigned for scholarly publishers to make openly available the references found in articles from their journals. Many publishers, including most of the large ones, support the initiative and have opened their references. However, the initiative still lacks support from a minority of the large publishers.

“References are a product of scholarly work and represent the backbone of science—demonstrating the origin and advancement of knowledge—and provide essential information for studying science and making decisions about the future of research. References are generated by the academic community and should be freely available to this community.”

Scientometrics is widely used to support science policy and research evaluation, with consequences for the entire scientific community. There is a need for specialized organizations, both commercial and non-commercial, that offer scientometric services.

...to guarantee full transparency and reproducibility of scientometric analyses, these analyses need to be based on open data sources.

Of the top-20 biggest publishers with citation data, **all but four** now make these data open via Crossref.

Two represent Scholarly Societies...

- Elsevier
- IEEE
- American Chemical Society
- Wolters Kluwer Health



Mission statement

The Society Publishers' Coalition (SocPC) is a group of likeminded, not-for-profit learned societies and membership charities who publish as part of their charitable objectives and who re-invest the surplus from their publishing into the disciplinary communities they serve.

SocPC members share the common ambition to see an orderly and sustainable transition to open scholarship and to improve the efficiency of the scholarly communication ecosystem for the benefit of researchers and society at large in a fair and sustainable way. In order to help achieve this we wish to work with researchers, funders, institutions and other stakeholders.

What is 21st C Scholarly Publishing?



A process & practice – a discipline - that facilitates scholarship & the public exchange of scholarly knowledge

it does what scholars have already been doing for 100s of years:
creating, discovering and disseminating knowledge
for the benefit of 'science' & society

We are part of a global 21st C knowledge revolution

But increasing anger & polarisation

Open Access versus Closed Access

Green versus Gold

'Good' Science versus 'Open' Science

AHSS versus STEM

Top down versus bottom up

Academic Freedom versus Academic Responsibility

Commercial versus not-for-profit

'Pay to read' versus 'pay to publish'

Global North versus Global South

What is 21st Scholarship?

(who gets to decide....?)

Global

Collaborative

Diverse & inclusive

Transparent & ethical

Values knowledge & expertise

Impactful, insightful & innovative

Promotes equity of opportunity for all

Recognises & rewards skills, talents & performance

Recognises & rewards teams, not just individuals or outputs

Promotes integrity in research practice, process, outputs & communication

A culture of knowledge creation, curation & communication that reflects core, shared values

Openness is not a panacea if the outputs then
can't be trusted or reused by others.

With openness, comes responsibility.

Limits to openness

It is not inherently good

- it does not represent truth

- it is not a substitute for accountability

- it must be applied within the context of its time, culture and the relations of the actors involved

It can be harmful

- if it reveals patient identity or the locations of endangered species

- if it limits honest conversation

It can obscure

- if it isn't FAIR – when an avalanche of information is released in a format that cannot be mined, analysed or understood by others

It is not an automatic route to trust

- it will depend on who releases the information and when and under what circumstances

Adapted from: Ananny, Mike, and Kate Crawford. 'Seeing without Knowing: Limitations of the Transparency Ideal and Its Application to Algorithmic Accountability'. *New Media & Society*, 13 December 2016, 1461444816676645. <https://doi.org/10.1177/1461444816676645>.

The Bottom line

- Our role is not to be a gatekeeper to the exchange of scholarly knowledge but a facilitator.
- We can aim to intrinsically align our interests with those of the research community who want to harness 21st technology, for the benefit of science and society
- Commercial players have a vital role to play, but it needn't be at the expense of science or society. And/both not either/or
- Can we be as open minded and collaborative in our approach to publishing and scholarly comms as we ask others to be in theirs?



What are the practices, services and tools that best support the publication and **exchange of scholarly knowledge?**

- Can Crossref adapt to the changing technology and tools so that it benefits all its potential members, including new entrants and OA publishers, commercial and not for profit?
- Should/is Crossref be/ing held up by the commercial interests of one or two large actors who want to ensure that the infrastructure and metadata is proprietary, if this is at the expense of competition, innovation and ultimately science and society?
 - How can we collaborate to build on our strengths
 - what might the membership be in 3, 5 and 10 years?
 - How will/should it be governed?
 - How can we make it sustainable?

Open Science and its role in universities: A roadmap for cultural change

📅 Year of publication: May 2018

📄 Type of paper: **Advice paper**

👤 Author(s):

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- › Katrien Maes (LERU Office)
- › Ignasi Labastida (University of Barcelona)

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“Change can only take place where there is trust, collaboration and commitment to a shared vision for the future.”

*“Open Science and Its Role in Universities: A Roadmap for Cultural Change.” LERU (2018). Accessed July 6, 2018.
<https://www.leru.org/publications/open-science-and-its-role-in-universities-a-roadmap-for-cultural-change>*

It is not open access or open science or even openness that is at the core of scholarly communication, but rigour, trust, diversity, inclusivity, collaboration, curiosity and creativity.

How can we all work with Crossref to make that happen?